
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2009; month=4; day=30; hr=8; min=22; sec=15; ms=998;]

Reviewer Comments:

1.

W213 Artificial or Unknown found in <213> in SEQ ID (1)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (1)

W213 Artificial or Unknown found in <213> in SEQ ID (2)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (2)

W213 Artificial or Unknown found in <213> in SEQ ID (3)

E224 <220>,<223> section required as <213> has Artificial

sequence or Unknown in SEQID (3)

<210> 1

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<221> source

<223> Artificial peptide

<400> 1

Asp Glu Ser Gly Leu Pro Gln Leu Thr Ser Tyr Asp Cys Glu

1 10

For SEQ ID # 1 through 3, "Artificial peptide" is an insufficient response for numeric identifier <223>. Please explain the source of the genetic material. If the sequence is put together from several

organisms, please list those organisms. If the sequence is made in the laboratory, please indicate that the sequence is synthesized. Please make all necessary changes.

Please remove numeric identifier <221> from the feature describing the "Artificial Sequence."

Validated By CRFValidator v 1.0.3

Application No: 10531662 Version No: 3.0

Input Set:

Output Set:

Started: 2009-04-17 15:20:32.710 **Finished:** 2009-04-17 15:20:33.487

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 777 ms

Total Warnings: 3

Total Errors: 3

No. of SeqIDs Defined: 34

Actual SeqID Count: 34

Error code		or code	Error Description			
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	E	224	<220>,<223> section required as <213> Unknown in SEQID (1)	has Artificial	sequence	or
	W	213	Artificial or Unknown found in <213>	in SEQ ID (2)		
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SEQUENCE LISTING

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<110> RATCLIFFE, PETER J.
     PUGH, CHRISTOPHER W.
      SCHOFIELD, CHRISTOPHER J.
      HEWITSON, KIRSTY S.
<120> HYDROXYLASES AND MODULATORS THEREOF
<130> 06843-0091
<140> 10531662
<141> 2005-10-21
<150> PCT/GB2003/004492
<151> 2003-10-16
<150> GB 0224102.4
<151> 2002-10-16
<150> GB 0226598.1
<151> 2002-11-14
<160> 34
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5

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<213> Homo sapiens
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       20 25
Pro Ala His Tyr Asp Glu Gln Gln Asn Phe Phe Ala Gln Ile Lys Gly
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            40 45
Tyr Lys Arg Cys Ile Leu Phe Pro Pro Asp
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His Lys Asp Phe Val Leu Ile Pro Pro His
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<213> Homo sapiens

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Lys Ile Val Arg Lys Leu Ser Trp Val Glu Asn Leu Trp Pro Glu Glu

1 5 10 15

Cys

<210> 10

<211> 44

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<213> Homo sapiens

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Asp Phe His Ile Asp Phe Gly Gly Thr Ser Val Trp Tyr His Val Leu 20 25 30

Lys Gly Glu Lys Ile Phe Tyr Leu Ile Arg Pro Thr 35 40

<210> 11

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<213> Caenorhabditis elegans

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 20 25 30
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           40
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                 10
                               15
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20 25 30
Ile Asp Pro Leu Gly Thr Ser Ala Trp Asn Ser Leu Leu Gln Gly His
 35 40 45
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50 55
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35 40 45

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   20 25 30
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35 40 45
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        55 60
<210> 27
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<212> PRT
<213> Homo sapiens
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1 5 10 15
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              25
       20
Trp His Thr Glu Asp Met Asp Leu Tyr Ser Ile Asn Tyr Leu His Phe
 35 40 45
Gly Glu Pro Arg Ser Trp Tyr Ser Val Pro Pro Glu
 50 55 60
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Tyr Trp Phe Ala Ile Ser Ser Glu

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<213> Drosophila melanogaster

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Asp Tyr Arg Phe Val Tyr Met Gly Pro Lys Asn Ser Trp Thr Ser Tyr 20 25 30

His Ala Asp Val Phe Gly Ser Phe Ser Trp Ser Thr Asn Ile Val Gly $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Leu Lys Lys Trp Leu Ile Met Pro Pro Gly 50 55

<210> 29

<211> 57

<212> PRT

<213> Schizosaccharomyces pombe

<400> 29

Phe Ala Asp Asp Trp Leu Asn Ala Tyr Val Ile Asp Cys Glu Ser Asp 1 5 10 15

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His Thr Asp Tyr Ala Ser His Ser Phe Ser Val Asn Leu Cys Gly Val 35 40 45

Lys Cys Trp Leu Phe Ile Asp Pro Lys 50 55

<210> 30

<211> 349

<212> PRT

<213> Homo sapiens

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Arg Glu Glu Ala Gly Ala Leu Gly Pro Ala Trp Asp Glu Ser Gln Leu 20 25 30

Arg Ser Tyr Ser Phe Pro Thr Arg Pro Ile Pro Arg Leu Ser Gln Ser

Asp Pro Arg Ala Glu Glu Leu Ile Glu Asn Glu Glu Pro Val Val Leu 50 55 60

Thr Asp Thr Asn Leu Val Tyr Pro Ala Leu Lys Trp Asp Leu Glu Tyr 65 70 75 80

Leu Gln Glu Asn Ile Gly Asn Gly Asp Phe Ser Val Tyr Ser Ala Ser 85 90 95

Thr His Lys Phe Leu Tyr Tyr Asp Glu Lys Lys Met Ala Asn Phe Gln \$100\$ \$105\$ \$110\$

Asn Phe Lys Pro Arg Ser Asn Arg Glu Glu Met Lys Phe His Glu Phe 115 120 125

Val Glu Lys Leu Gln Asp Ile Gln Gln Arg Gly Glu Glu Arg Leu 130 135 140

Tyr Leu Gln Gln Thr Leu Asn Asp Thr Val Gly Arg Lys Ile Val Met 145 150 155 160

Asp Phe Leu Gly Phe Asn Trp Asn Trp Ile Asn Lys Gln Gln Gly Lys $165 \hspace{1.5cm} 170 \hspace{1.5cm} 175$

Arg Gly Trp Gly Gln Leu Thr Ser Asn Leu Leu Leu Ile Gly Met Glu 180 185 190

Gly Asn Val Thr Pro Ala His Tyr Asp Glu Gln Gln Asn Phe Phe Ala 195 200 205

Gln Ile Lys Gly Tyr Lys Arg Cys Ile Leu Phe Pro Pro Asp Gln Phe 210 215 220

Glu Cys Leu Tyr Pro Tyr Pro Val His His Pro Cys Asp Arg Gln Ser 225 230 235 240

Gln Val Asp Phe Asp Asn Pro Asp Tyr Glu Arg Phe Pro Asn Phe Gln
245 250 255

Asn Val Val Gly Tyr Glu Thr Val Val Gly Pro Gly Asp Val Leu Tyr 260 265 270

Ile Pro Met Tyr Trp Trp His His Ile Glu Ser Leu Leu Asn Gly Gly 280 Ile Thr Ile Thr Val Asn Phe Trp Tyr Lys Gly Ala Pro Thr Pro Lys 295 300 Arg Ile Glu Tyr Pro Leu Lys Ala His Gln Lys Val Ala Ile Met Arg 305 310 315 320 Asn Ile Glu Lys Met Leu Gly Glu Ala Leu Gly Asn Pro Gln Glu Val 325 330 335 Gly Pro Leu Leu Asn Thr Met Ile Lys Gly Arg Tyr Asn 340 345 <210> 31 <211> 39 <212> PRT <213> Homo sapiens <400> 31 Ser Met Asp Glu Ser Gly Leu Pro Gln Leu Thr Ser Tyr Asp Cys Glu 1 5 10 15 Val Asn Ala Pro Ile Gln Gly Ser Arg Asn Leu Leu Gln Gly Glu Glu 20 25 30 Leu Leu Arg Ala Leu Asp Gln 35 <210> 32 <211> 52 <212> PRT <213> Homo sapiens <400> 32 Pro Ser Asp Leu Ala Cys Arg Leu Leu Gly Gln Ser Met Asp Glu Ser 1 5 10 15 Gly Leu Pro Gln Leu Thr Ser Tyr Asp Cys Glu Val Asn Ala Pro Ile 20 25 30

Gln Gly Ser Arg Asn Leu Leu Gln Gly Glu Glu Leu Leu Arg Ala Leu

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Asp Gln Val Asn 50

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<211> 12

<212> PRT

<213> Homo sapiens

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1 5 10

<210> 34

<211> 12

<212> PRT

<213> Homo sapiens

<400> 25

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1 5 1